LOGGED BY	BEGIN DATE	COMPLETION DATE	BOREHOLE LOCATION (Lat/Long or North/East and Datum)	HOLE ID
S. McLandrich	12-5-07	12-5-07	N2120909.987 / E5996704.748 (NAD83)	MPTNB-R3
DRILLING CONTRACTOR			BOREHOLE LOCATION (Offset, Station, Line)	SURFACE ELEVATION
Gregg Drilling and Testing, Inc.			Offset 144ft R Sta 58+22 NB Alignment	9.841 ft (NAVD88)
DRILLING METHOD			DRILL RIG	BOREHOLE DIAMETER
Mud Rotary			Failing 1500	5 in.
SAMPLER TYPE(S) AND SIZE(S) (ID)			SPT HAMMER TYPE	HAMMER EFFICIENCY, ERi
MC (2.4"), SPT (1.4"), Grab, Shelby (2.87"), Pitcher (2.87")			Automatic, 140 lbs., 30-inch drop	72.8%
BOREHOLE BACKFILL AND COMPLETION			GROUNDWATER READINGS DURING DRILLING AFTER DRILLING (DATE)	TOTAL DEPTH OF BORING
Neat Cement Grout backfill				59 ft

ELEVATION (ft)	DEPTH (ft)	Material Graphics	Description	Sample Location	Sample Number	Blows per 6 In	Blows per Foot	Recovery (%)	RQD (%)	Moisture Content (%)	Dry Unit Weight (pcf)	Shear Strength (tsf)	Drilling Method	Casing Depth	Remarks
	0		Poorly graded GRAVEL with SAND (GP), brown, dry, fine to coarse, angular, SAND is fine, trace CLAY. [FILL]		S1										
	1														
7.84	2		1.5', grades moist.												
	3		Poorly graded SAND (SP), medium dense, brown, moist, fine.		S2	6 9 10	19	56							
5.84	4		3.0', grades yellowish brown.												
	5				S3	5 6 9	15	100							
			5.0', grades dark gray.							19.1					PID= 0.1 ppm
3.84	6														PA
	7														
			Fat CLAY (CH), soft, dark bluish gray, wet, with organic odor, with decayed vegetation. [BAY MUD]												
1.84	8		Poorly graded SAND (SP), dark gray, moist, fine. [MARINE SAND]		U4		100 psi	75							
	9		Fat CLAY (CH), soft, dark bluish gray, moist to wet, trace fine SAND with decayed vegetation. [BAY MUD]							66.6 54 32.7	98.7				PID= 0.1 ppm Grab sample at 8.5' PI, LL, C
-0.16	10		Poorly graded SAND (SP), dark bluish gray, wet, fine to medium, trace fines. [MARINE SAND]												
	11														
-2.16	12		Grades light yellowish brown, dense, fine.												
	13				S5	16 27 33	60	100							
-4.16	14				S6	7 14 16	30	100							
	15														PID= 0.1 ppm
-6.16	16														
	17		Fat CLAY (CH), soft, bluish gray, moist to wet, with SAND lenses. [SANDY BAY MUD]									TV = 0.3			
-8.16	18				S7	0 0 2	2	100							
	19		Grades with lenses of CLAYEY SAND. Grades without SAND lenses.		S8	0 0 2	2	100							PA
-10.16	20									53.5					PA
	21		CLAYEY SAND (SC), bluish gray, wet, very fine. [MARINE SAND]												PID= 0.1 ppm
					U9		100 psi	100							
-12.16	22														
	23						300 psi			23.3	124.7	UU = 0.25			PA
			Poorly graded SAND with CLAY (SP-SC), dense, yellowish brown, wet, fine, with zones of iron-oxide staining, with greenish gray mottling. [COLMA SAND]												
-14.16	24				S10	9 13 27	40	100							
	25														

(continued)

Department of Transportation
Division of Engineering Services
Geotechnical Services

REPORT TITLE				HOLE ID
BORING RECORD				MPTNB-R3
DIST.	COUNTY	ROUTE	POSTMILE	EA
4	S.F.	101	8.3/9.4	163701
PROJECT OR BRIDGE NAME				
Doyle Drive Replacement Project				
BRIDGE NUMBER	PREPARED BY		DATE	SHEET
34-0163R	T. Carroll		11-3-08	1 of 3

CALTRANS FORMAT DOYLEDRIVE_ARUPLOGS_11-2-08.GPJ ARUP LIBRARY_CALTRANS FORMAT.GLB 11/3/08

Figure

ELEVATION (ft)	DEPTH (ft)	Material Graphics	Description	Sample Location	Sample Number	Blows per 6 In	Blows per Foot	Recovery (%)	RQD (%)	Moisture Content (%)	Dry Unit Weight (pcf)	Shear Strength (tsf)	Drilling Method / Casing Depth	Remarks
	25		Poorly graded SAND (SP), dense, yellowish brown, wet, fine.											
-16.16	26													
	27													
-18.16	28				S11	50/6"	50/6"	100						
			Grades very dense.		S12	20 35 42	77	100						PID= 0.1 ppm
	29													
-20.16	30													
	31													
-22.16	32													
	33				S13	50/6"	50/6"	100						
			Grades with iron-oxide staining, SAND grades very fine.		S14	16 25 37	62	100						PID= 0.1 ppm
-24.16	34		Grades heavy iron-oxide staining, with lenses of yellowish brown sandy CLAY.											
	35													
-26.16	36													
	37													
-28.16	38		Poorly graded SAND with SILT (SP-SM), very dense, light yellowish brown, wet.		S15	21 50/6"	50/6"	100						
	39				S16	16 21 31	52	100						PID= 0.1 ppm
-30.16	40		Grades dark yellowish brown, SAND grades very fine.							21.8				PA
	41													
-32.16	42													
	43				S17	50/6"	50/6"	100						
					S18	25 35 50	85	100						PID= 0.1 ppm
-34.16	44													
	45													
-36.16	46													
	47													
-38.16	48		SILTY SAND (SM), very dense, dark yellowish brown, wet, very fine.		U19			63						
	49									16.2	132.9			PA, CU
			49.2', heavily iron-oxidized and strongly cemented zone.											PID= 0.1 ppm
-40.16	50													
	51													
-42.16	52													
	53				S20	35 50/ 4.5"	50/ 4.5"	100						
			Grades olive gray with increase in fines content.		S21	15 25 36	61	100						PID= 0.1 ppm
-44.16	54													
	55													

(continued)

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REPORT TITLE				HOLE ID
BORING RECORD				MPTNB-R3
DIST.	COUNTY	ROUTE	POSTMILE	EA
4	S.F.	101	8.3/9.4	163701
PROJECT OR BRIDGE NAME				
Doyle Drive Replacement Project				
BRIDGE NUMBER	PREPARED BY		DATE	SHEET
34-0163R	T. Carroll		11-3-08	2 of 3

CALTRANS FORMAT DOYLEDRIVE_ARUPLOGS_11-2-08.GPJ ARUP LIBRARY_CALTRANS FORMAT.GLB 11/3/08

Figure

ELEVATION (ft)	DEPTH (ft)	Material Graphics	Description	Sample Location	Sample Number	Blows per 6 In	Blows per Foot	Recovery (%)	RQD (%)	Moisture Content (%)	Dry Unit Weight (pcf)	Shear Strength (tsf)	Drilling Method	Casing Depth	Remarks
	55		SILTY SAND (SM), very dense, dark yellowish brown, wet, very fine.												
-46.16	56														
	57														
-48.16	58		Poorly graded CLAYEY SAND (SC), very dense, olive gray, wet, fine, with pockets of iron-oxide staining.		S22	18 20 37	57	100		22.6					PA
	59		Borehole terminated at a depth of 59 feet on 12/5/2007.												
-50.16	60		See Boring Record Legend for soil classification chart and key to test data and sampler type.												
	61														
-52.16	62														
	63														
-54.16	64														
	65														
-56.16	66														
	67														
-58.16	68														
	69														
-60.16	70														
	71														
-62.16	72														
	73														
-64.16	74														
	75														
-66.16	76														
	77														
-68.16	78														
	79														
-70.16	80														
	81														
-72.16	82														
	83														
-74.16	84														
	85														

CALTRANS FORMAT DOYLEDRIVE_ARUPLOGS_11-2-08.GPJ ARUP LIBRARY_CALTRANS FORMAT.GLB 11/3/08

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PROJECT OR BRIDGE NAME				
Doyle Drive Replacement Project				
BRIDGE NUMBER	PREPARED BY		DATE	SHEET
34-0163R	T. Carroll		11-3-08	3 of 3

Figure